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Large gold find in Canyon

Construction begins on

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Butte Nickel pic's

operations in Montana

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Goldcorp plans bacterial

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Mining glassnost could

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compete

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Randburg option from DRX

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Soviet diamond deposit

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Soviet Union joining in

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Yugoslavia

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## ZAIRE

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## ZAMBIA

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Zambian fluor spar project

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<b>BLASTING &amp; EXPLOSIVES</b>									
New vibration monitor	M	J252	High voltage cable couplers for mining	M	M378	OULOGOU 90	IA J007	Manganese	
<b>COAL TECHNOLOGY</b>									
Simultaneous coal heading/roof bolting machine development	M	J215	New mining rectifiers	M	J456	New Geologists' Conference	IA J007	New commission to study magnetic ores	
'Water-only' cyclones	A	M286			Gold Update '89-'90	IA J007	B.C. Geological Survey - a		
Jameison cell success in coal recovery	M	J381			Dredging & Pump Mining	IA J007	Mineral resources in the American Massif.		
<b>COMMUNICATION &amp; SCREENING</b>						Regulation	IA J007	France	
Swedish mobile crushers	M	J087	More than hot air	M	J157	The use of optimization in open pit design	IA J047	Canadian exploration	
Quality products for lab work on milling, grinding and size analysis			Europeans energy outlook	S	J158	Planning conference	IA J047	Zones of magma in volcanic eruptions	
New classifying and dewatering screens	M	J131	New diesel generator sets for the mining industry	M	M139	International Copper Conference	IA J047	The Eskay Creek discovery	
Large grizzly feeder	M	J155	Soviet energy independent investment	M	J175	Recycling of metalliferous materials	IA J047	Software for geological modelling of stratified deposits	
Comprehensive line of lab-scale crushing/milling			Energy to burn	IA	J214	Latin American Symposium on Mining	IA J047	Precious metals in Portugal	
Hydraulic breaker for large excavators	M	M217	Power station for Tamil Nadu	IA	J205	International Lead Conference	IA J047	Major new projects and expansion programmes (non-gold)	
New classifying/dewatering screens	M	M217	New Brunswick Power plant coal-fired facilities	P	M241	U.K. Coal, Challenge for the 1990s	IA J047	Digital geological mapping	
Mobile crushers from Sweden	M	M303			Construction mining show in Zaragoza, Spain	MW J059	Nigerian coal		
Large grizzly feeder	M	M305			The Global outlook for TiO <sub>2</sub> and TiO <sub>2</sub> replacements/extenders	M M680			
Jaw crusher offers simple maintenance, longevity	M	M356			Pacific Rim Congress 1990	IA J086			
Fine grinding study in Australia	M	J517	30g stack monitoring for Cu smelters	M	M142	Lead and zinc in the 1990s	IA J086		
<b>COMPRESSORS</b>						Latin America	IA J086		
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<b>COMPUTERS</b>						Boston Gold Show	IA J086		
Computer file	M	M072	Catalytic purifier for mine diesel equipment	M	J252	Environmental impact of the mineral industry	IA J153	Central strike lifted	
Dataplan	A	M128	The mine that will be a road P	M	M163	Mine reclamation symposium	IA J153	Asarcos pact ratified	
Computer file	M	M136	Green coal	MW	J270	Mining and reclamation	IA J153	Peruvian miners call strike	
Computer file	M	M221	Radioactive waste disposal	M	M140	Economic treatment of mineral	IA J153	Pittston strike over	
Software for geological modeling of stratified deposits			Bulgarian mining competition	M	J301	Mining	IA J153	New pact at Doyon	
Digital geological mapping	A	M266	U.S. clean-up	M	J341	Miners' strike pact for	IA J153	Mississippi	
Computer file	M	M380	Brazilian action	MW	J351	SPCC strike underway	IA J191		
Computer file	M	M458	Irish alteration	MW	J374	Australian labour unrest	IA J213		
<b>DRILLING</b>						Spanish coal unrest	IA J213		
Groundwater drainage on Zambian Copperbelt	M	M067	Soviet mining	M	J393	Peru: strike drags on	IA J213		
Additional to Taita Copper 2-3mm wireline system	M	J107	Brasilia iron plant closures	IA	J434	Uruguay: contract accepted	IA J250		
This kerf wireline system	M	J131	Improved CaSO <sub>4</sub> scale inhibition technology	M	J476	Mining Convention '90	IA J214	Strike threat in Iceland	
The Sample drill system	A	M118	Time to speak out	E	M399	NIMEX International '92	IA J214	IA J274	
Drill rig for Channel Tunnel project	M	M143			ASMINEX conference	MW J248	Metals strike in R.S.A.	IA J298	
Longer life from new matrix/diamond impregnated bits	M	J192			WIMCON '90	IA J251	SPCC pact is dissolved	IA J298	
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New-generation blasthole drills for opencast mining	M	M275			production	IA J251	Labour pact at David Bell	IA J354	
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This kerf wireline system	M	M303			14th World Mining Congress & exhibition, Beijing, China	IA J319	Malaysian wage rise for tin miners	IA J354	
Drillites '90	M	M383			XIVth WMC and exhibition, Beijing, China	A M283	Yugoslav unrest	IA J454	
New matrix/diamond combination bits	M	M371			4th World symposium on mining economics	IA J418	Ormet reaches labour pact	IA J454	
4drillite - Atlas Copco D-T-H hammer range	M	M378			Uruguayan Institute	IA J418	Moroccan strike	IA J454	
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Sampling and valuation of gold deposits	IA	J455			Position fixing with hand-held unit for field exploration personnel	S J048	On-line shearer condition monitoring	M J029	
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<b>EXCAVATORS &amp; LOADERS</b>						Mineral resources in the American Massif, France	A M108	On-line condition monitoring	M W214
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New large mining vehicles from Komatsu	M	M065			The Global dimension	IA J239			
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New face shovel for U.K. quarry	M	M140			The Eskay Creek discovery	A M172			
Huge new shingle line for Australian coal mine	M	M144			Positioning with hand-held unit	M M215			
Liebherr 8044 for Welsh opencast coal site	M	J220			Canada's Stikine Arch	M J222			
World's largest all-cast mine shovel dipper	M	M216			Australian exploration - past and present	N J477			
Large driller for Symons, S. Africa	M	M216							
Hydraulic breaker for large excavators	M	M217			<b>FILTRATION</b>		<b>MATERIALS HANDLING</b>		
New wheel dozer	M	J338			Double layer wave belting improves filtrate quality	M J435	Long life skips	M J131	
High lift loader aids Kentucky coal operation	M	M377					Large grizzly feeder	M J155	
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The professionals	E	M237							
The Bog Mine	A	M269							
C.E.T.	E	M319							
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<b>MATERIALS HANDLING</b>									
Long life skips	M	J131							
Large grizzly feeder	M	J155							
Discharge valve aids	M	J172							
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Automatic grader for tankhouses	M	J227							
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## MINING COMMUNICATIONS

Sophisticated longwall communications link  
British Telecom aids U.K. coalfields communications  
New communications system enhances mine safety

## MINE MANAGEMENT

Finding out Dataplan RTZ in the 1990s Mergers and acquisitions in the mining industry Mine planning

## MINERAL PROCESSING

Work on bacteria to remove organic sulphur from coal Treating refractory gold by bacterial oxidation World's largest swing-arm thickener for tailings retreatment project Solvent extraction of copper - a perspective Improved laboratory disc magnetic separator New wear-resistant hydrocyclone linings Bidirectional gold/copper mining in Northern Norway Treating refractory gold by bacterial oxidation Retort system remove Hg & Hg from Au/Ag concentrates

Compact column cell for low-grade flotation Good ideas Huge thickener for Au tailings project Carbon-in-leach with oxygen cost study Carbon regeneration furnace Licensed for coal-gold agglomeration process

Tin beneficiation in northwest Brazil "Water-only" cyclones Compact column flotation Flowers bring difficult coal/mining slurries New S.A.-based mineral process design

Coal-gold agglomeration Large-scale carbon cells commissioned at Fimiston Mixer-settler system for sm. Carbonate leaching with oxygen (CIL) cost study

New high intensity magnetic separators Special furnace cuts gold recovery costs Vail Reducer cost

Australian study on better heavy liquid for mineral separation Improved CaSO<sub>4</sub> scale inhibitor technology

Assume to produce metals from waste Carbon regeneration furnace

## MINING EQUIPMENT

Utility vehicles aid development work at Mt Isa New electric trolley truck Azmacollar Modular water storage tanks for mines Customised drill rigs meet targets at Birashram Gyptum Drillix '90 Flexible, expandable clay dry and pond liner Kankung goes electric Tis beneficiation in northwest Brazil LKAB - a century of success Kiruna mine today Super stops at Kiruna Wheel loaders

## OFFSHORE & DEEP SEA MINING

Australian sea-bed Act

## OPENCAST MINING

Azmacollar Mining activity in the Western World Bidirectional gold/copper mining in Northern Norway

Major new projects and expansion programmes (non-gold)

## POLITICO-ECONOMIC

South Africa's stimulation Waste measures Soviet gold and coal measures Second chances for South Africa? P.N.G. strife continues ANC offering Law of the jungle Investment performances Venezuela easing restrictions Oman's oilphile - a metal target Welcome to 90s The World Bank looks at African mining Manganese Mining activity in the Western World Quest for the Mark over the Philippines Gold - a Soviet staple Mutual benefit's Reform boosts R.S.A. shares West Africa's wood investors Oil from Africa Mandala emerges Private gold investment surges

Albanian overview Clean air controversy South Africa's 'advice' U.S. holdings in R.S.A.

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## MINING COMMUNICATIONS

Sophisticated longwall communications link

British Telecom aids U.K. coalfields communications

New communications system enhances mine safety

## French connection

## PROSPECTING

Bolivian prospecting

Prospecting in Portugal

## PUBLICATIONS

Metaleurop non-ferrous statistics

The mining Law of 1872: a legal and historical analysis

The mines of Cardiganshire, Montgomeryshire and Shropshire

Colombian survey

Rockfall on Cerro Llana

South African environments into the 21st century

Mining/recycling

Cost factors in reclaimed land

North Sea Miner reaches 75

World aluminium industry

Geology and economics of platinum group metals in Australia

Vanuatu - a world situation report

Industrial Archaeology Review

Milliclose - the mine that died

The professionals

An introduction to applied geostatistics

Concise encyclopedia of mineral resources

The new mineral revolution

Uniting Kingdom Minerals Yearbook 1989

Today's technology for the mining and metallurgical industries

Gold in Britain

## PUMPS & PIPES

Pinch valves for high pressure applications

Dependable ceramic-lined slurry pumps

Dry seal pump eliminates problems

Dry seal pump eliminates packing/maintenance problems

Pinch valves for high pressure applications

High pressure slurry pumps for phosphate pipeline

New thread facilitates shaft pipeline installation

Miner's salt mine

Pump repair kits

High pressure slurry pumps for phosphate pipeline

Rapid shaft pipemine installation in F.R.G. - M

## RECLAMATION

Reclaiming metalliferous tailings in Wales

"Reclaiming tailings" - a reader's comments

## RESEARCH

New commission to study magnetic ores

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The Bog Mine

Lab-scale milling, grinding and size analysis

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Seeking solutions

## RUBBER & PLASTICS

New Latex plant in Malaysia

## SAFETY & HEALTH

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Handling Xanthates safely

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Recent mine accidents

Rescue in West Bengal

Chilean copper-calcite fire

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Lithium fire

Upgrade mine vehicle fire suppression systems

Furnace collapse in Gansu

Rockfall on Cerro Llana

In-situ accident prevention with CCTV system

Large-display methane monitor

Continuous monitoring

Turkish protest against mine

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Opportunity knocks

## DEVELOPMENT

Delebral accident

Catalytic purifier for mine diesel equipment

A mine fire isolated at a distance

Hand-held metal detector gives instant readings

Handling xanthates safely

Prosecutions in China

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Zaire tragedy

Soviet gas poisoned

Chinese response to death toll

Upgraded mine vehicle fire suppression systems

In-situ accident prevention with CCTV

Large-display CM monitor for continuous miners

Algerian mine flood

Accident at Elandstrand

Soviet mine accident

R.S.A. accidents

## STRATA CONTROL

Cementitious grout pump for cable bolting

Novel roofbolting adaptor

Rock bolts: valuable research findings from Sweden

Cementitious grout pumps for cable bolting

## SURVEYING

Helicopter survey in Yemen

B.C. Geological Survey - a growing resource

Long range retro-reflector

for mine slope monitoring

In-situ surveys in U.S. coal mines

Digital geological mapping

In-seam seismic surveys in U.S. coal mines

Sudbury area geophysical survey

Tyne-Tees/Anglesey geochemistry

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Canadian laws ready

Tax breaks in Indonesia

U.S. lead tax

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## TRADE & STATISTICS

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New York metal market

Australian survey

Romanian reorganization

Albania: sulphuric acid experts

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Uruguay opens up

Vanadium feed or tannin

Metaleurop non-ferrous statistics

S.A. cost cuts continue

Japanese steel record

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Well-equipped

Welcome, the 90s

The World Bank looks at African mining

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M. 2009

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130% turnover jumps	S	J304	No text books	MW	J439
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Smart service review	S	J327	Steam coal shipping markets	MW	J470
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Comex products	MW	J349	Metals prices wobble	S	J500
Holding company for STC/MWTC	IA	J354	Most expensive pink	IA	J515
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## **Companies and Other Public Bodies**

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Harslebshofen Corp.	MF J428		IA J453	Orenstein & Koppel	MW J163	
Heclo Mining	MF J39			MF J119	Sonicor	
Hightech Mining	MF J409			M J009	Ofc of Ovalle	
Highland Gold	MF J22			M J142	NF J368	
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Hoechst AG	MF J309	IA J086	MF J098	Onar Corp.		
Hoechst AG Marketing	M J15		MF J200	Ontario Hydro		
Homestake Mining	M J212		MF J363	Orion Corp. Normet		
MF J179	M J065	Malaysia Mining Corp.	IA J309	Ormet Corp.		
IA J141	M J388	IA J396	MF J443	Otukompu		
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Hudson Bay Mining and Smelting	M J518	W.G. Mansers & Co.	M W114	M W211	MF J181	
Huwood	M J386	Haunachsm	M W144	IA J054	Sumitomo Metal Mining	
			M W085	IA J248	IA J087	
			M W456	IA J376	Svedala-Arbrå	
			M J381		M W303	
		Marville Corp.	MF J346	MF J503		
		Marlow Drilling Services	M W300	Otukompu Electronics		
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		Master Magnets	M W065	M W065		
		Matcon	M J172	M W065		
			M J333	M J376		
		Matplant Process (Pty)	MF J356	M J381		
Impala Platinum Holdings	MW J041	Mawson Pacific	MF J309	MF J381		
MF J115	MW J116	Mazda Chemical	M W436	MF J384		
Imperial Metals Corp.	MW J529	Meekatharra Minerals	MW J083	MF J184		
Imco	M J408	Metallgesellschaft	IA J085	MF J179		
IA J419	MF J221		IA J474	IA J190		
Independence Mining	MF J528	Metal Market and Exchange	MF J310	Peabody Holdings		
Independent Resources	MW J513	Metana Minerals	IA J005	MF J428		
Industria Venezolana de Aluminio (Venezalum)	M J411	IA J105	MF J119	Pechiney		
Info Bulk Control Systems	M J055	Middle Witwatersrand	MF J448	MF J386		
Ingersoll-Rand	M J275	MIM Holdings	MF J304	Pegasus Gold		
MF J518	M W453	MF J109	MF J383	MF J228		
Inspiration Resources	MW J101	IA J044	MF J055	MF J191		
Instem Electronics	M J252	MW J172	MF J286	Terex Corp.		
International Labour Organisation	M J313	MW J338	MF J386	MF J383		
International Platinum	IA J248	MW J390	MF J384	MF J179		
International Tin Council	MW J260	MF J390	MF J446	MF J388		
Isahara Sangyou	MF J428	MIN Technology Marketing	IA J228	Teledyne Canadas Mining Products		
Ivernia West	MW J039	Mineracao Jacuabao	A M850	S J049		
		Mineracao Norro Velho	MF J054	M W117		
		Minera Rayrock	MF J486	Tenneco Minerals		
		Mineracao Minerares	MF J485	MF J228		
		Minerite Technologies	MF J489	Terex Corp.		
		Minanova	MF J138	MF J383		
			MF J168	MF J384		
J		Minorco	MW J145	MF J386		
Jaba Inc.	M J192		MW J209	MF J242		
	M W377		MF J310	MF J386		
Jacobs Engineering Group	M J065	Misproc A/S	M W333	MF J386		
James Clem Corp.	M J339	Misproc Engineers	M W226	MF J386		
JKS-Boyles	M J031		M W255	MF J386		
M W087	M J398	Misproc Holdings	MW J083	MF J386		
Johannesburg Cons. Investment	ME J096	Mivane Gold Corp.	M W034	MF J386		
MF J088	MW J314	Mivane Metal Cement	MF J310	MF J386		
Johnson Watney	IA J378	Mitsubishi Metal Corp.	IA J105	MF J386		
K		Mitsui and Co.	IA J316	MF J386		
Kaiyi & Sals	MF J427	Molycor Inc.	MF J161	MF J386		
Kamyr Inc.	M J275	Moraison Kaudens	MF J140	MF J386		
	M W376	Motoren Werke Mannheim AG	MF J287	MF J386		
Kennecott	M W320	Mosht Lyell	MF J287	MF J386		
IA J060	MF J037	MWH Products	M W144	MF J386		
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National Mine Services	MW J163	National Mine Services	MF J163	MF J386		
Navan Resources	IA J124	Navan Resources	IA J124	MF J386		
Neumann Equipment	M W497	Neumann Equipment	M W497	MF J386		
Neurim Truck	M J029	New British Electric Power Commission	P M241	MF J386		
M J173	M J105	Newmont Australia	MF J368	MF J386		
	M W298	Newmont Gold	MF J017	MF J386		
Krebs Engineers	M J131	Newmont Mining	MF J177	MF J386		
M W302	M J320	New Zealand Steel	MF J390	MF J386		
Krupp Widia	M J320	Neyritec	IA J295	MF J386		
		Nitro Nobel	M J031	MF J386		
		Nosoc Mining and Industrial Corp.	MF J184	MF J386		
		Norandore	MF J117	MF J386		
		Norandore	MF J117	MF J386		
LAC Minerals	MF J119	IA J228	IA J251	MF J386		
IA J168	MW J283	IA J376	MW J390	MF J386		
Larox	M J452	Noranda Exploration	IA J514	MF J386		
	M W008		IA J044	MF J386		
La Société Minière Louven	M W216	Nord Resources	MW J289	MF J386		
Leeds Mineral Services	M W008		MF J244	MF J386		
Legend Metallurgical Laboratory	MW J038	Normandy Resources	MF J286	MF J386		
Liebherr Great Britain	M W192	Normet	M W233	MF J386		
Lindapter	M W142	Norrem Hydro	IA J192	MF J386		
Lindley Flowtech	M W456	Northern Platinum	MF J095	MF J386		
LIKAB	M W067	North Broken Hill Peko	MF J529	MF J386		
London Metal Exchange	M W416	Northgate Exploration	MF J179	MF J386		
N J033	S J003	Novatek Aereks	M W122	MF J386		
S J177	S J304	NSC plc	MF J528	MF J386		
		Nunaching Inc.	MF J467	MF J386		
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Sammancor	MF J207					
	MF J368					
Scame Corp.	MF J386					
Shell Oils	M J45					
Sherritt Gordon	MF J261					
Sibeka	MF J485					
Sierra Rutile	MF J307					
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Sammancor	MF J207					
	MF J368					
Scame Corp.	MF J386					
Shell Oils	M J45					
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